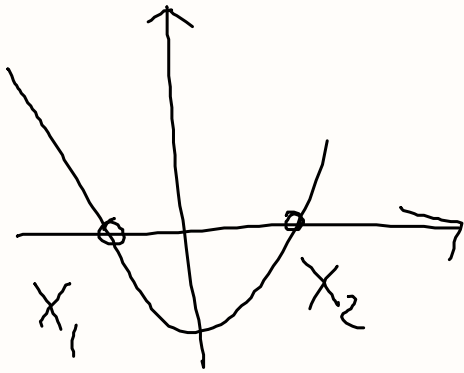


$$ax^2+bx+c=0$$

$$x_1 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

$$x_2 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

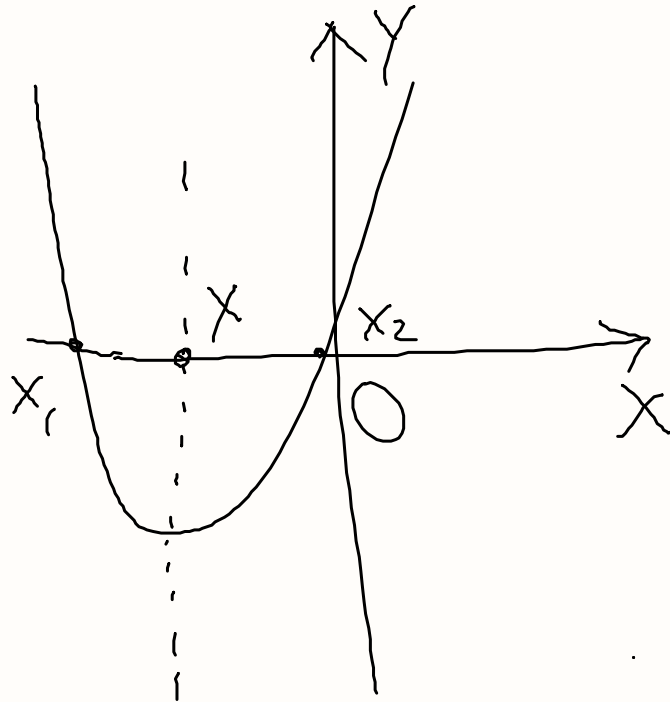


p. 310

AXIS OF SYMMETRY OF PARABOLA

$$y = ax^2 + bx + c$$

$$x = -\frac{b}{2a}$$



p. 957 less 5.5

$$(16) \quad y = \underbrace{3}_{a}x^2 + \underbrace{6}_{b}x - \underbrace{2}_{c}$$

$$a=3 \quad b=6 \quad c=-2$$

$$x_1 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{(-6 - \sqrt{6^2 - 4 \cdot 3 \cdot (-2)})}{2 \cdot 3} \approx -2.3$$

$$x_2 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

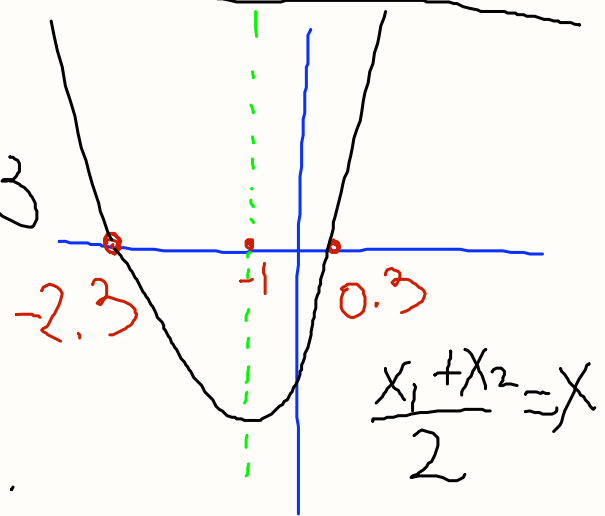
(-)

$$\frac{(-6 + \sqrt{6^2 - 4 \cdot 3 \cdot (-2)})}{(2 \cdot 3)} \approx 0.3$$

$$x = -\frac{b}{2a}$$

$$b = 6 \quad a = 3$$

$$x = -\frac{6}{2 \cdot 3} = -1$$



#18

$$y = -x^2 + 8x + 12$$

$$y = -1x^2 + 8x + 12$$

$$x = -\frac{8}{2(-1)} = \frac{8}{2} = 4$$

$$a = -1; b = 8; c = 12$$

HOME: p. 311 28, 30, 32, 34, 36

x_1, x_2
FORMULA

X COORDINATE
OF AXIS
OF SYMMETRY

$$x = -\frac{b}{2a}$$